BOMBARDIER

SERVICE BULLETIN
REVISION TRANSMITTAL SHEET

MODEL BD−700−1A10 (BD−700)

Discard the Basic Issue of this Service Bulletin dated Sep 28/2020 and replace in its entirety with this Revision 01.

Service Bulletin No. 700−35−6501

Date of Basic Issue Sep 28/2020

Revision No. 01 Dated Feb 12/2021

This revision has no effect for aircraft on which the Basic Issue of this Service Bulletin was done thus no other action is necessary. Do not sign the log book if you have not done this revision. Keep the previous log book entry. You may make an entry as "Not Applicable" for this revision.

This revision is issued to:

1. Revise, in Paragraph 1.C. and 1.K., to add hoses details for the step on Appendix 1.
2. Deleted, in Paragraph 1.F., a NOTE for the labour hour calculation.
3. Added, in Paragraph 1.F., a new NOTE.
4. Revised, in Paragraph 1.F., restructured labour hour policy for PART A, PART B and PART C.
5. Deleted, in Paragraph 1.G., parts purchase order statement.
6. Add, in Paragraph 1.K., Advisory Wire number.
7. Revise, in Paragraph 2.B.(1)., to add green fitting hoses to the statement.
8. Add, in Appendix 1 − Record Table, a new NOTES.
9. Make miscellaneous minor changes, as necessary, with no change of context.

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SERVICE BULLETIN SUMMARY

This Service Bulletin is available at:
my.businessaircraft.bombardier.com

MODEL BD−700−1A10 (BD−700)

ATA 35−11

OXYGEN

**MODIFICATION – OXYGEN SUPPLY SYSTEM –
FLEXIBLE OXYGEN HOSE REPLACEMENT**

The information below is provided for your reference. For full details, including labor and part coverage, please see corresponding paragraph contained within this bulletin.

RECOMMENDED SPECIFIED TIME COMPLIANCE	**COMPLIANCE TIME** Refer to Paragraph 1.D.
EFFECTIVITY: A/C Serial No. **9861** and **9872**	
MANPOWER: Refer to Paragraph 1.F.	

CONTINUED AIRWORTHINESS (CAW) FLEET CAMPAIGN	YES	☒	NO	☐
TLMC, CH 5 AFFECTED	YES	☐	NO	☒
KITS and/or PARTS	YES	☒	NO	☐
TOOLING/GSE	YES	☒	NO	☐
PLANNING INFORMATION: See important information at the start of Paragraph 1.	YES	☒	NO	☐
DEDICATED SCHEDULE	YES	☐	NO	☒

PREREQUISITE SERVICE BULLETINS: N/A

NOTE: This Service Bulletin may be subject to an Airworthiness Directive which will make it necessary to implement this Service Bulletin.

To place an order for parts or kits, please call Bombardier Aviation Parts Services at:

514−855−2999 or 1−866−538−1247

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SERVICE BULLETIN

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MODEL BD−700−1A10 (BD−700)

ATA 35−11

OXYGEN

**MODIFICATION – OXYGEN SUPPLY SYSTEM –
FLEXIBLE OXYGEN HOSE REPLACEMENT**

1. PLANNING INFORMATION

NOTES:

1. **Before you do this Service Bulletin, examine all STC, STA or equivalent action changes to make sure that this Service Bulletin can be completed.**

2. Due to different aircraft configurations, operators must first inspect their existing oxygen hose installation prior to placing an order with Parts Services.

3. Bombardier Aviation recommends to replace all existing O2C20T1 hoses at the earliest opportunity.

   Operators that cannot do the replacement at inspection time must repeat the pressure and leak tests in PART B until all the O2C20T1 hoses are replaced, as described in TCCA Airworthiness Directive.

4. Aircraft less than five years must repeat PART B every 30 months until all O2C20T1 hoses are removed and replaced.

5. Aircraft five years and over must repeat PART B every 15 months until all O2C20T1 hoses are removed and replaced.

6. All O2C20T1 series hoses must be replaced within 10 years of Aircraft Completion STC issuance.

A. Effectivity

BD−700−1A10 aircraft, Serial No. **9861** and **9872**.

NOTE: The instructions given in this Service Bulletin are only applicable to the systems and parts installed at the time of delivery of the aircraft or as changed by Bombardier Aviation Service Bulletin(s).

B. Reason

1. Condition:

   After the deployment functional test of the oxygen masks at a scheduled maintenance, Bombardier Service Center reported that four hoses used for the passenger oxygen were found damaged.

2. Evidence:

   After investigation, it was found that over time, the O2C20T1 series hoses may have leak points in them through structural cracks or breaks, and may become rigid or brittle at some areas.

3. Objective/Benefit:

   The intent of this Service Bulletin is to remove and replace all installed O2C20T1 series flexible oxygen hoses, with 3891X series hoses.

   Engineering evaluation has concluded that 3891X series flexible oxygen hoses, which are manufactured from different materials, have shown no sign of deterioration due to age or other environmental factors.

C. Description

This Service Bulletin gives instructions in PART A to:

- Inspect the hose assembly installations located in the crew rest PSU, the cabin PSUs, the RHS dado (therapeutic oxygen) and the AFT flexible transitions,
- Fill out Appendix 1 with the affected O2C20T1 series flexible oxygen hoses part numbers found installed, and
- Order the replacement parts as required and per aircraft configuration.

This Service Bulletin gives instructions in PART B to:

- Do the periodical testing, until full replacement of all O2C20T1 series hoses.

This Service Bulletin gives instructions in PART C to:

- Remove the O2C20T1 series hoses, and
- Install the 3891X series hoses as per Figure 2.

After PART C, this Service Bulletin gives instructions to:

- Do the necessary tests of the oxygen system.

D. Compliance

Recommended within five months from this Service Bulletin release date (Basic Issue) for PART A and PART B.

Recommended within 10 years from Aircraft Completion STC issuance for PART C.

NOTES: 1. Bombardier Aviation recommends that this Service Bulletin be done at the operator's earliest convenience, unless otherwise directed by the airworthiness authority of the operator.

2. If it is not possible to complete all the instructions in this Service Bulletin because of the aircraft configuration, submit an SRPSA for analysis and to get an approved disposition to complete this Service Bulletin.

E. Approval

The technical content of this Service Bulletin has been approved under the authority of TC STC number SA12−16, FAA STC number ST03088NY, EASA STC number 10042314.

F. Manpower

NOTES: 1. The man−hours given are to help you schedule the tasks given in this Service Bulletin. The man−hours are for direct labor performed by an experienced crew and do not include the time for familiarization, planning, aircraft preparation in hangar such as towing and positioning of scaffolds, repainting, supervision and inspection.

For more information related to the manpower, refer to SB 700−00−6502.

2. This Service Bulletin may require consumable materials that have specific curing times (refer to Paragraph 3). The accumulated curing time is not included in the man−hours and should be considered for planning purposes before you schedule this Service Bulletin.

2 man−hours are necessary to do PART A of this modification.

NOTE:

- 2 hours are required to get access for a visual of the hose fittings. There is no need to remove completely the furniture to get access.
- It is recommended to do the replacement Part C during the same downtime as the inspection in order to save removal/installation time.

3 man−hours are necessary to do PART B of this modification.

8 man−hours are necessary to do PART C of this modification.

The labor required to do PART A of this Service Bulletin is at no cost if:

- the work is done during new aircraft warranty period, and

- the work is done at Bombardier Business Aviation Services (BBAS) or Authorized Service Facilities (ASF), and
- this Service Bulletin is scheduled in less than 24 months from Aircraft Completion STC issuance.

Bombardier Aviation does not pay for the labor to do PART B of this Service Bulletin.

The labor required to do PART C of this Service Bulletin is at no cost if:

- the work is done during new aircraft warranty period, and
- the work is done at Bombardier Business Aviation Services (BBAS) or Authorized Service Facilities (ASF), and
- this Service Bulletin is scheduled in less than 24 months from Aircraft Completion STC issuance.

G. Material − Cost and Availability

No kit is necessary to do this modification. For material data, refer to Paragraph 3.C.

The parts in Paragraph 3.B. are necessary to do this modification.

The parts are available at no cost if:

- the parts are ordered in less than four (4) years of Aircraft Completion STC issuance, and
- a no−charge purchase order is sent to Bombardier Aviation in less than 30 months, from this Service Bulletin release date (Basic Issue).

During or after the above free period, Smart Parts does not pay for the parts.

H. Tooling

The equipment and tools listed below are necessary to do this modification:

GSE REFERENCE NO.	PART NO.	DESCRIPTION
12X−20−02	−	Nitrogen Service Cart
20X−10−01	S4933959−501	Tag, Circuit Breaker
35X−10−01	G700−351001−29	Test Kit − Crew Oxygen System
Commercially Available	−	Electrical Outlet Tester
Commercially Available	−	Oxygen Pressure Test Gauge (OPTG) with a Resolution of 2 psi (13.79 kPa) Minimum

GSE REFERENCE NO.	PART NO.	DESCRIPTION
Commercially Available	−	Tag, DO NOT ACTIVATE
Commercially Available	−	Wrench, Torque 100 to 125 lbf in (11.30 to 14.12 Nm)

NOTES:
1. Refer to the Global 6500 Illustrated Tool and Equipment Manual (ITEM) to make sure that you use the correct equipment configuration.
2. Refer to the Liability Statement in the ITEM for the G6500 for acceptable GSE equivalents.
3. Refer to the Pressure task applicable to your aircraft in IFCA BAS67058081 (attached) for the requirement of the Nitrogen service cart or not.
4. This list is provided for quick reference. In case of discrepancy between this list and the tools called in the SPM, WM, Chapter 20, then the tools called in the SPM, WM prevail. Other approved alternative tools are acceptable and can also be used.

I. Weight and Balance

No change.

J. Electrical Load Data

No change.

K. References

− TCCA Airworthiness Directive, (pending).
− Advisory Wire, AW700−35−0794.
− Bombardier Instructions for Continued Airworthiness (IFCA), BAS67058081 (attached).
− Bombardier Aviation, Kit Drawing BAS67638098, Rev. A.
− Global 6500 BD−700 Aircraft Maintenance Manual (AMM), Chapters 6, 12, 24, 25, 35 and 52.
− Global 6500 BD−700 Illustrated Tool and Equipment Manual (ITEM), Chapters 20 and 35.
− Bombardier Aviation, Standard Practices Manual (SPM), Chapters 20 and 51.
− Supplemental Maintenance Manual (SMM), Chapters 24, 25 and 35.
− Appendix 1 − Record Table (attached) for O2C20T1 series flexible oxygen hoses only (green fitting hoses).

L. Other Publications Affected

None.

M. Equivalent Service Bulletins

- For the Global Express and Global Express XRS BD−700−1A10 aircraft, use SB 700−35−015.
- For the Global 5000 BD−700−1A11 aircraft, use SB 700−1A11−35−014.
- For the Global 5000 BD−700−1A11 Featuring Global Vision Flight Deck aircraft, use SB 700−35−5005.
- For the Global 6000 BD−700−1A10 aircraft, use SB 700−35−6005.

2. ACCOMPLISHMENT INSTRUCTIONS

NOTES: 1. All TASKs given in the procedures that follow are from the Global 6500 BD−700−1A10 Aircraft Maintenance Manual (AMM) unless otherwise specified.

2. All references made to zones, access panels and/or doors, are from the Global 6500 BD−700−1A10 Aircraft Maintenance Manual (AMM), Chapter 6.

A. Aircraft Setup

NOTE: The steps in the Aircraft Setup section of this Service Bulletin are recommended steps. The steps give a recommendation to get access to the work area. This recommendation is to give a safe work area and to minimize possible damage to surrounding aircraft parts. Alternative steps can be used at the operator's discretion.

(1) Obey all electrical/electronic safety precautions. Refer to AMM 24−00−00−910−801.

(2) For PART A:

(a) No setup required.

(3) For PART B:

(a) No setup required.

(4) For PART C :

(a) Obey all the oxygen system safety precautions. Refer to AMM 35−00−00−910−801.

(b) Make sure the BATTERY MASTER switch in the flight compartment is set to OFF.

(c) Open the applicable PSUs. Refer to SMM 25−17−64−010−801, SMM 25−28−54−010−801 and SMM 25−42−56−010−801.

B. PART A — Part Number Inspection on Existing Oxygen System

NOTE: If it is not possible to complete all the instructions in this Service Bulletin because of the configuration of the aircraft, submit an SRPSA for analysis and to get an approved disposition to complete this Service Bulletin.

(1) Refer to Figure 1 and Figure 2 and inspect the part number of the oxygen hose installations at the locations that follow. For recording purposes, note the green hoses installed part numbers only in Table 2 of Appendix 1 (attached):

(a) If installed, remove the mid cabin removable partition. Refer to SMM 25−23−64−000−801.

(b) Open and inspect the installation in the crew rest PSU. Refer to SMM 25−17−64−010−801.

(c) Open and inspect the installations in the cabin PSUs. Refer to SMM 25−28−54−010−801.

(d) Inspect the cabin transition hose installations.

(e) Inspect the installation in the AFT lavatory as follows:

(i) If the installation is in the PSU, open the AFT lavatory PSU. Refer to SMM 25−42−56−010−801.

(ii) If the installation is behind the headliner, remove the AFT lavatory headliner. Refer to SMM 25−42−54−000−801.

(iii) Inspect the installation in the AFT lavatory.

(f) Remove the two RHS dado panels, or until visual inspection is possible. Refer to SMM 25−28−56−000−801.

(g) Inspect the two therapeutic oxygen installations.

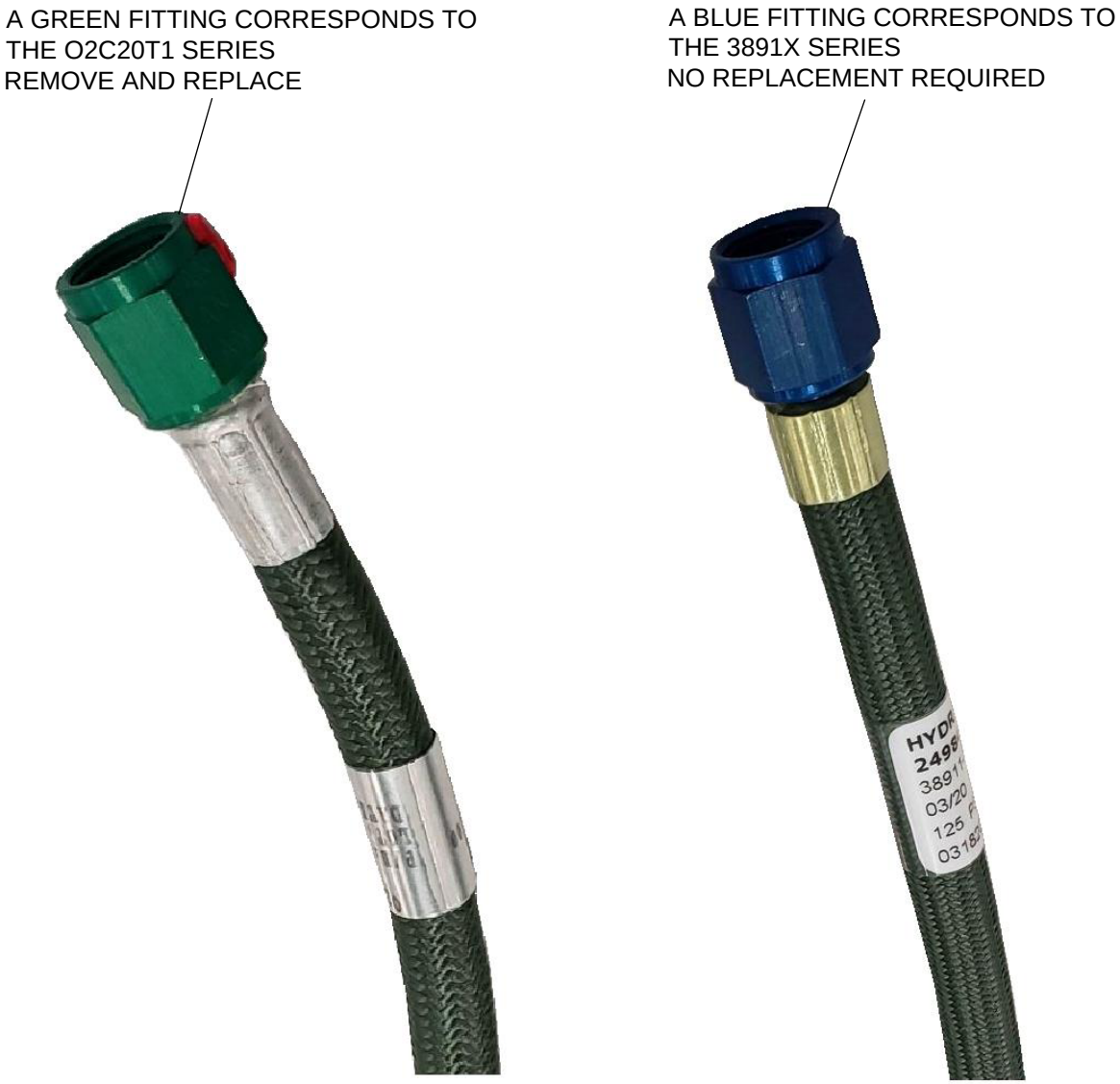

FIGURE 1

SB700−35−6501_001

(2) If no O2C20T1 series hose is installed, then PART B and PART C of this Service Bulletin is not applicable to your aircraft. Make an entry in the aircraft log and go to Paragraph 2.F. Close−out.

(3) If one or more O2C20T1 series hose is installed, do one of the following options:

(a) Option 1 − Replacement (mandatory for aircraft 10 years and up)

(i) Place an order for the replacement parts. Refer to Paragraph 3.B.

NOTE: It is permissible to install a longer or shorter hose assembly to ensure a proper installation.

(ii) Go to Paragraph 2.A.(4) Aircraft Setup for PART C.

(iii) Continue to Paragraph 2.D.

(b) Option 2 − Test and replace at a later date.

(i) Go to Paragraph 2.C., PART B — Scheduled Testing

C. PART B — Scheduled Testing

NOTES: 1. If it is not possible to complete all the instructions in this Service Bulletin because of the configuration of the aircraft, submit an SRPSA for analysis and to get an approved disposition to complete this Service Bulletin.

(1) For aircraft less than five years from Aircraft Completion STC, repeat the following tests every 30 months:

(a) Do the pressure test of the passenger oxygen system. Refer to SMM 35−21−50−780−801 or SMM 35−21−01−780−802 for the applicable effectivity in the IFCA BAS67058081 (attached).

(b) Do the leak test of the therapeutic oxygen system. Refer to SMM 35−22−50−790−801.

(c) If any of the O2C20T1 series hose fails the above tests, then all O2C20T1 series hoses must be replaced at this time, do the following:

(i) Place an order for the replacement parts. Refer to Paragraph 3.B.

NOTE: It is permissible to install a longer or shorter hose assembly to ensure a proper installation.

(ii) Go to Paragraph 2.A.(4) Aircraft Setup for PART C.

(iii) Continue to Paragraph 2.D., PART C — Modification — Flexible Oxygen Hose Replacement.

(2) For aircraft over five years from Aircraft Completion STC, repeat the following tests every 15 months:

(a) Do the pressure test of the passenger oxygen system. Refer to SMM 35−21−50−780−801 or SMM 35−21−01−780−802 for the applicable effectivity in the IFCA BAS67058081 (attached).

(b) Do the leak test of the therapeutic oxygen system. Refer to SMM 35−22−50−790−801.

(c) If any of the O2C20T1 series hose fails the above tests, then all O2C20T1 series hoses must be replaced at this time, do the following:

(i) Place an order for the replacement parts. Refer to Paragraph 3.B.

NOTE: It is permissible to install a longer or shorter hose assembly to ensure a proper installation.

(ii) Go to Paragraph 2.A.(4) Aircraft Setup for PART C.

(iii) Continue to Paragraph 2.D., PART C — Modification — Flexible Oxygen Hose Replacement.

(3) Repeat step (1) or step (2) at required intervals until O2C20T1 series hoses are removed and replaced and PART Cof this Service Bulletin is incorporated.

NOTE: PART C of this Service Bulletin must be completed within 10 years of Aircraft Completion STC issuance.

D. PART C — Modification — Flexible Oxygen Hose Replacement

NOTE: If it is not possible to complete all the instructions in this Service Bulletin because of the configuration of the aircraft, submit an SRPSA for analysis and to get an approved disposition to complete this Service Bulletin.

(1) Obey all the oxygen−system safety precautions. Refer to AMM 35−00−00−910−801.

(2) Obey all electrical/electronic safety precautions. Refer to AMM 24−00−00−910−801.

WARNING: BE CAREFUL WHEN YOU DO WORK ON OR NEAR THE CAPILLARY LINES. CAPILLARY LINES CAN BE EASILY DAMAGED. IF THEY ARE DAMAGED, IT CAN CAUSE INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

WARNING: WHEN YOU LOOSEN OR TIGHTEN THE CAPILLARY LINES, MAKE SURE THAT THE CAPILLARY LINES DO NOT TURN WITH THE FITTINGS. IF YOU DO NOT DO THIS, YOU CAN CAUSE THE LINE TO BREAK AND CAUSE INJURY TO PERSONNEL.

WARNING: DO NOT LET OIL, GREASE, OR SOLVENTS GET ON YOUR HANDS, CLOTHING, OR THE EQUIPMENT USED TO DO WORK ON THE OXYGEN SYSTEM. IF OXYGEN TOUCHES OIL, GREASE OR SOLVENTS, THEY CAN START TO BURN.

(3) Remove and replace all O2C20T1 series hose installed at the locations shown in Figure 2 as follows. Refer to the applicable Notes on Figure 2:

NOTES: 1. Keep all lines, fittings and connections completely free of oil, grease and foreign matter. Cap open ends of cleaned and dried tubing connections at all times.

2. Do not put thread compound on the female fitting.

3. Do not put thread compound on the first two male threads.

4. Do not use Teflon tape on any flared male or female tube fittings and coupling sleeve threads.

5. For the connection of oxygen lines on male pipe threads, apply Teflon tape conforming to MIL−T−27730. On male flared threads apply only anti−seize compound which conforms to MIL−PRF−27617, Type II, which is suitable for gaseous oxygen.

6. Make sure that you do not make a scratch on the sealing surfaces during installation.

7. Oxygen lines must be mounted above wires, fuel and hydraulic system lines.

8. Oxygen lines spaced 6 in (152 mm) away from wires need no special protection.

9. Oxygen lines spaced 6 to 2 in (152 to 50 mm) from wires shall require to be sheathed in conduit or be securely clamped and have cable ties installed at intervals less than the distance between the wiring and oxygen lines.

10. Oxygen lines spaced 2 to 0.5 in (50 to 12 mm) from wires shall require wires to be encased in insulated conduit and securely clamped. These clamps shall not be used for support of wires.

11. Oxygen lines separated from wiring by conductive barrier may be spaced 0.5 in (12 mm) from the wires.

12. Oxygen lines must be spaced 6 in (152 mm) from fuel, oil, hydraulics, engine, flight linkage and any moving parts.

13. Where oxygen line crosses electrical, hydraulic or fuel lines, protect for 6 in (152 mm) each side of crossing by covering with convolex.

CAUTION: USE TWO WRENCHES WHEN YOU REMOVE/TORQUE THE HOSES/TUBES. USE ONE WRENCH TO HOLD THE FITTING, AND THE OTHER WRENCH TO LOOSEN/TORQUE THE COUPLING NUT. IF YOU DO NOT DO THIS, YOU CAN CAUSE DAMAGE TO THE COMPONENTS.

CAUTION: MAKE SURE THAT YOU PUT A PROTECTIVE COVER OR CAP IN ALL THE OPEN OXYGEN LINES AND COMPONENT FITTINGS. IF YOU DO NOT DO THIS IMMEDIATELY AFTER THEY ARE DISCONNECTED, UNWANTED MATERIALS CAN GO INTO THE OXYGEN SYSTEM. THIS CAN CAUSE CONTAMINATION OF THE OXYGEN SYSTEM.

(a) Disconnect and discard the O2C20T1 series hoses.

CAUTION: NO TEFLON TAPE IS TO BE USED ON MALE FLARED THREADS, COUPLING SLEEVES, OR ON THE OUTSIDE OF TUBE FLARES.

(b) Assemble the 3891X series hoses. Refer to SPM−MM 20−22−00−910−801.

CAUTION: DO NOT TIGHTEN THE FITTING TO MORE THAN THE MAXIMUM RANGE FOR THE SPECIFIED TORQUE. TOO MUCH TORQUE CAN CAUSE POSSIBLE LEAKAGE OR DAMAGE TO THE PLUMBING LINE.

(c) Torque the fittings from 100 to 125 lbf in (11.30 to 14.12 Nm). Refer to SPM−MM 20−22−00−910−802.

(4) If applicable, set the ON/OFF switch on the oxygen cylinder regulator to ON. Refer to AMM 35−00−00−910−801.

E. Testing

(1) Connect the electrical power to the aircraft. Refer to AMM 24−00−00−861−802.

(2) Open the oxygen fill and indicator door (121CL).

WARNING: DURING THIS TEST, OXYGEN MAY BE RELEASED; THEREFORE ALL POSSIBLE IGNITION SOURCES SHOULD BE REMOVED FROM THE AIRCRAFT

(3) Do the pressure test of the passenger oxygen system. Refer to SMM 35−21−50−780−801 or SMM 35−21−01−780−802 for the applicable effectivity in the IFCA BAS67058081 (attached).

(4) Do the leak test of the therapeutic oxygen system. Refer to SMM 35−22−50−790−801.

(5) Remove the electrical power from the aircraft. Refer to AMM 24−00−00−861−802.

F. Close−out

NOTE: The steps in the Close−out section of this Service Bulletin, except for the return−to−service tests, are recommended steps. The steps give a recommendation to install components removed during the Aircraft Setup. This recommendation is to make sure that the aircraft is safe and ready to return to service. Alternative steps can be used at the operator's discretion.

(1) Remove all tools, equipment and unwanted materials from the aircraft.

(2) If opened, close the AFT lavatory PSU. Refer to SMM 25−42−56−410−801.

(3) If removed, install the AFT lavatory headliner. Refer to SMM 25−42−54−400−801.

(4) Close the cabin PSUs. Refer to SMM 25−28−54−410−801.

(5) Close the crew area PSU. Refer to SMM 25−17−64−410−801.

(6) Install the RHS dado panels. Refer to SMM 25−28−56−400−801.

(7) If removed, install the mid cabin removable partition. Refer to SMM 25−23−64−400−801.

(8) If removed, install the forward equipment compartment access panels (131AL/132AR). Refer to AMM 52−45−05−400−801.

(9) If opened, close the oxygen fill and indicator door (121CL).

G. Recording

You can do each PART of this Service Bulletin independently. When any PART of this Service Bulletin is completed, make an entry in the aircraft log and send the attached Incorporation Notice to Bombardier Business Aircraft Customer Services (BBACS).

For information, correction(s), comment(s) and/or feedback regarding Service Bulletins released on the Customer Portal, please contact the Service Bulletin Group at the following email address:

bbad_SBgroup@aero.bombardier.com

3. MATERIAL INFORMATION

A. Kit

No kits required.

B. Parts

The parts that follow are necessary to do this Service Bulletin and are available from Bombardier Aviation Parts Services, Montreal:

NEW PART NO.	QTY	ITEM	USED PART NO.	INSTRUCTIONS - DISPOSITION
38911−05−0040 See Note 2	A/R	Hose Assembly, Straight	O2C20T1−5−0400	Discard
38911−05−0070	A/R	Hose Assembly, Straight	O2C20T1−5−0700	Discard
38911−05−0080	A/R	Hose Assembly, Straight	O2C20T1−5−0800	Discard

NEW PART NO.	QTY	ITEM	USED PART NO.	INSTRUCTIONS - DISPOSITION
38911−05−0100	A/R	Hose Assembly, Straight	O2C20T1−5−1000	Discard
38911−05−0120	A/R	Hose Assembly, Straight	O2C20T1−5−1200	Discard
38911−05−0150	A/R	Hose Assembly, Straight	O2C20T1−5−1500	Discard
38911−05−0160	A/R	Hose Assembly, Straight	O2C20T1−5−1600	Discard
38911−05−0250	A/R	Hose Assembly, Straight	O2C20T1−5−2500	Discard
38911−05−0310	A/R	Hose Assembly, Straight	O2C20T1−5−3100	Discard
38911−05−0360	A/R	Hose Assembly, Straight	O2C20T1−5−3600	Discard
38911−05−0540 See Note 2	A/R	Hose Assembly, Straight	O2C20T1−5−5400	Discard
38911−05−0720	A/R	Hose Assembly, Straight	O2C20T1−5−7200	Discard
38913−05−0100	A/R	Hose Assembly, One Side 90 Deg	O2C20T14−5−1000	Discard
38913−05−0250	A/R	Hose Assembly, One Side 90 Deg	O2C20T14−5−2500	Discard
AD003−05AG	A/R	Elbow, 90 Deg	−	−

NEW PART NO.	QTY	ITEM	USED PART NO.	INSTRUCTIONS - DISPOSITION
CB9120V5	A/R	Mounting Base	−	−
MS21042L3	A/R	Nut	−	−
MS21919WDG9	A/R	Clamp	−	−
MS3367−5−9	A/R	Tyrap	−	−
NAS1149F0332P	A/R	Washer	−	−
NAS1801−3−8	A/R	Screw	−	−
O2C10T05−5−5	A/R	Elbow Line Type Assy	−	−
O2C10T1−5−5	A/R	Line Type Assy	−	−

NOTES: 1. The part numbers for the items listed above are subject to change without revision to this Service Bulletin. In case of discrepancy between this list and any other list, the Illustrated Parts Catalog prevails and shall be used to determine the latest part number.

2. If required.

C. Material

The materials that follow, or equivalent, are necessary to do this Service Bulletin. These can be purchased from a local supplier. Bombardier Aviation does not pay for these consumables.

DESCRIPTION	PART NO./NAME	SPECIFICATION	QUANTITY	SUPPLIER (SEE NOTE)
Tamper Proof Sealant CT: 24 hours	Scotch−seal 1252	−	As Necessary For PART C	Code: A
Tape, Anti−Seize	−	A−A−58092	As Necessary For PART C	Code: A

DESCRIPTION	PART NO./NAME	SPECIFICATION	QUANTITY	SUPPLIER (SEE NOTE)
Adhesive, Sealant, Silicone, RTV, Noncorrosive CT: 24 to 72 hours	RTV 3145	MIL−A−46146	As Necessary For PART C	Code: B
Adhesive CT: Up to 36 hours	Araldite 2011	−	As Necessary For PART C	Code: C
Lacquer, Gloss, for Aircraft	A−A−3165 Color White	−	As Necessary For PART C	Code: D
Alcohol, Isopropyl	−	TT−I−735 Grade B	As Necessary For PART C	Code: E
Brush, Paint, Natural or Synthetic Bristle	−	−	As Necessary For PART C	Code: E
Cloth, No−Lint	−	−	As Necessary For PART C	Code: E
Compound, Leak Detection	−	MIL−PRF−25567	As Necessary For PART B	Code: E
Grease, Aircraft and Instrument, Fuel and Oxidizer Resistant	−	MIL−PRF−27617 Type II	As Necessary For PART C	Code: E
Lockwire, CRES 0.020 in (0.51 mm)	MS20995C20	−	As Necessary For PART C	Code: E
Scraper, Non−Metallic	−	−	As Necessary For PART C	Code: E
Tape, Anti−Seize	−	MIL−T−27730	As Necessary For PART C	Code: E

DESCRIPTION	PART NO./NAME	SPECIFICATION	QUANTITY	SUPPLIER (SEE NOTE)
Tape, Anti−Seize	−	MIL−T−27730A	As Necessary For PART C	Code: E
Tape, Masking	−	−	As Necessary For PART C	Code: E
Torque Seal, Tamper−Proof Indicator Paste	Dykem Cross Check	−	As Necessary For PART C	Code: E

NOTES:
1. Refer to the table that follows for each suppliers address listed by codes.
2. The Curing Time (CT), if applicable, for each consumable material is indicated with the description of each product.
3. At time of release of this Service Bulletin, the information on the supplier was valid and accurate. In the event that this information has changed, the operator is encouraged to use the World Wide Web to find a local supplier.

SUPPLIERS ADDRESSES BY CODES	
Code: A 3M Adhesive Division 3M Center Building 21−1W−10 900 Bush Ave. St Paul, MN, 55144−1000 U.S.A. Tel: 1−800−362−3550 http://www.3M.com/industrial	**Code: B** Dow Corning Corp. 2200 Salzburg Road W. Midland, MI U.S.A. 48686−0994 Tel.: (989) 496−4400 www.dow.com
Code: C Huntsman Advance Materials 5121 San Fernando Road W. Los Angeles, CA U.S.A. 90039−1101 Tel.: (888) 564−9318 www.huntsman.com	**Code: D** Tempo Paint and Varnish Co. 205 Fenmar Dr. Weston, Ontario Canada, M9L 2X4 Tel.: (416) 746−2233 www.tempo−aerospace.com

SUPPLIERS ADDRESSES BY CODES
Code: E Commercially Available

D. Publications

No publications required.

APPENDIX 1 — RECORD TABLE

FLEXIBLE OXYGEN HOSE PART NUMBER CHECK

NOTES: 1. Write the P/N of the green fittings O2C20T1 series flexible oxygen hoses or N/A, if no installation or other than O2C20T1 series flexible oxygen hoses.

2. This appendix is for Operator reference only and is not required to be sent to Bombardier Aviation.

TABLE 1		
AIRCRAFT SERIAL NO.	**AIRFRAME HOURS**	**AIRCRAFT CYCLES**

TABLE 2	
Crew Rest	
Existing P/N: _____	–
LHS Cabin PSUs and Transitions	**RHS Cabin PSUs and Transitions**
Existing P/N: _____ FS:_____	Existing P/N: _____ FS:_____
Existing P/N: _____ FS:_____	Existing P/N: _____ FS:_____
Existing P/N: _____ FS:_____	Existing P/N: _____ FS:_____

TABLE 2	
Existing P/N: _____ FS:_____	Existing P/N: _____ FS:_____
Existing P/N: _____ FS:_____	Existing P/N: _____ FS:_____
Existing P/N: _____ FS:_____	Existing P/N: _____ FS:_____
Existing P/N: _____ FS:_____	Existing P/N: _____ FS:_____
Existing P/N: _____ FS:_____	Existing P/N: _____ FS:_____
AFT Lavatory PSU or Headliner	
Existing P/N: _____	Existing P/N: _____
Therapeutic Oxygen	
Existing P/N: _____ FS:_____	Existing P/N: _____ FS:_____

GENERAL NOTES: UNLESS OTHERWISE SPECIFIED

1. RESERVED.
2. THE INTENT OF THIS DRAWING IS TO REMOVE AND REPLACE ALL THE EXISTING FLEXIBLE OXYGEN HOSES ASSY O2C20TI SERIES BY FLEXIBLE OXYGEN HOSES ASSY 3891X SERIES.
3. ALL MATERIALS HAVE MET THE FLAMMABILITY REQUIREMENTS PER 14 CFR, FAR 25.853 (OR EQUIVALENT AS REQUIRED BY APPLICABLE REGULATIONS).
4. IT IS THE MAINTENANCE FACILITY'S RESPONSABILITY TO UPDATE THE A/C WEIGHT & BALANCE REPORT ACCORDINGLY.
5. PART NUMBER IDENTIFICATION PER BEST SHOP PRACTICE TO BE CARRIED OUT AFTER ALL MANUFACTURING PROCESSES USING INDELIBLE INK.
6. IF REQUIRED AFTER PRESSURE TEST (REF TO NOTE 12), LEAK CHECK IAW APPLICABLE GROUND TEST PROCEDURE: CARRY OUT LEAK TEST AT EACH CONNECTION, USING LEAK DETECTOR PER MIL-PRF-25567.
7. PREPARATION OF ELECTRICAL BONDING SURFACES AS PER SPM 51-80-00-140-801, INSTALLATION OF ELECTRICAL BONDING JUMPERS AS PER SPM 51-80-00-400-801 AND ELECTRICAL BONDING TEST AS PER SPM 51-80-00-760-801.
8. PLUMBING LINES INSTALL IAW STANDARD PRACTICE MANUAL SECTION 20-22-00.
9. USE AVIATORS (BREATHING) OXYGEN IAW MIL-O-27210.
10. KEEP ALL LINES, FITTINGS AND CONNECTIONS COMPLETELY FREE OF OIL, GREASE AND FOREIGN MATTER. CAP OPEN ENDS OF CLEANED AND DRIED TUBING CONNECTIONS AT ALL TIMES.
11. APPLY ANTI-SEIZE COMPOUND ON STRAIGHT THREADS CONFORMING TO MIL-G-27617, TYPE I AND SUITABLE TO GASEOUS OXYGEN. (A SUITABLE PRODUCT IS KRYTOX 240AZ BY DUPONT).
APPLY TEFLON TAPE ON MALE PIPE THREADS CONFORMING TO MIL-T-7730.
NOTE: DO NOT USE TEFLON TAPE ON ANY FLARED MALE OR FEMALE TUBE FITTINGS AND COUPLING SLEEVE THREADS.
12. PRESSURE TEST AFTER HOSE ASSY REPLACEMENT PER SMM TASK 35-21-50-780-801 (CABIN) AND SMM TASK 35-22-50-790-801 (THERAPEUTIC CABIN) AND AMM TASK 35-10-00-780-801 (COCKPIT).
13. DO NOT TIGHTEN OXYGEN FITTINGS WHEN THE SYSTEM IS UNDER PRESSURE. ENSURE THAT LINES ARE PRE-LOADED AFTER INSTL.
14. IN ROUTING OXYGEN LINES, THE FOLLOWING CLEARANCES MUST BE OBSERVED:
OXYGEN LINES MUST BE MOUNTED ABOVE WIRES, FUEL AND HYDRAULIC SYSTEM LINES.
OXYGEN LINES SPACED 6 IN. AWAY FROM WIRES NEED NO SPECIAL PROTECTION.
OXYGEN LINES SPACED 6 IN. TO 2IN. FROM WIRES SHALL REQUIRE WIRES TO BE SHEATHED IN CONDUIT OR BE SECURELY CLAMPED AND HAVE CABLE TIES INSTALLED AT INTERVALS LESS THAN THE DISTANCE BETWEEN THE WIRING AND OXYGEN LINES.

    OXYGEN LINES SPACED 2 IN. TO 0.5 IN. FROM WIRES SHALL REQUIRE WIRES TO BE ENCASED IN INSULATED CONDUIT AND SECURELY CLAMPED. THESE CLAMPS SHALL NOT BE USED FOR SUPPORT OF WIRES.

    OXYGEN LINES SEPARATED FROM WIRING BY CONDUCTIVE BARRIERS MAY BE SPACED 0.5 IN. FROM THE WIRES.

    OXYGEN LINES MUST BE SPACED 6 IN. FROM FUEL, OIL, HYDRAULICS, ENGINE, FLIGHT LINKAGE AND ANY MOVING PARTS.
15. TORQUE FLEXIBLE OXYGEN HOSE FITTINGS TO 100-125 IN-LBS USING BEST SHOP PRACTICE.
16. IT IS PERMISSIBLE TO USE ANY EQUIVALENT ADHESIVE IN LIEU OF ITEM 300.
17. IT IS PERMISSIBLE TO INSTALL ITEM 50, ELBOW 90 DEG, TO ENSURE A PROPER INSTALLATION OF NEW HOSE ASSY ITEM 10 TO 21.
18. USE ITEM 200 TO 203 TO ENSURE A PROPER INSTALLATION OF HOSE ASSY ITEM 10 TO 21 AND ENSURE THERE IS NO CHAFFING BETWEEN HOSE (TYPICAL BUTTERFLY INSTALLATION).
19. WHERE OXYGEN LINE CROSSES ELECTRICAL, HYDRAULIC OR FUEL LINES, PROTECT FOR 6.0 INCH EACH SIDE OF CROSSING BY COVERING WITH CONVOLEX P/N: HCTE-XXXX-0-SP (OR ANY EQUIVALENT). CUT LENGTH TO SUIT FOR SPACING REQUIREMENTS.
20. REMOVE AND DISCARD EXISTING O2C20TI SERIES HOSE ASSY AND REPLACE THEM WITH ITEM 10 TO 21. BASED ON THE EXISTING P/N INSTALLED IN THE AIRCRAFT, ORDER THE EQUIVALENT P/N WITHIN THE 3891X SERIES HOSE ASSY (ITEM 10 TO 21). QUANTITY AND LOCATION MAY VARY.
IT IS PERMISSIBLE TO INSTALL A LONGER OR A SMALLER HOSE ASSY TO ENSURE A PROPER INSTALLATION.

    O2C20TI SERIES P/N: O2C20TI-5-XXXX
    3891X SERIES P/N:: 38911-5-XXXX

    O2C20TI SERIES P/N: O2C20TI4-5-XXXX
    3891X SERIES P/N:: 38913-5-XXXX

    THE -XXXX REPRESENT THE LENGTH OF THE HOSE ASSY.
    FOR EXAMPLE, THE O2C20TI SERIES HOSE ASSY PART NUMBER O2C20TI-5-2500 (LENGTH: 25"), 3891X SERIES ALTERNATE PART WITH THE SAME LENGTH IS 38911-5-0250 (LENGTH: 25").
21. ENSURE THERE IS NO INTERFERENCE WITH OTHER EXISTING PARTS AND THE HOSE ASSY ITEM 10 TO 21. AS REQUIRED, USE MOUNTING BASE ITEM 100 AND TYRAP ITEM 101 (OR ANY EQUIVALENT) TO FIX THE NEW HOSE ASSY AND PREVENT THE FOULING WITH OTHER EXISTING PARTS. BOND MOUNTING BASE USING ADHESIVE ITEM 300 PER BEST SHOP PRACTICE.
22. IF DAMAGED DURING HOSE REPLACEMENT, REPLACE THE EXISTING ELBOW LINE TYPE ASSY P/N: O2C10T05-5-5 OR LINE TYPE ASSY P/N: O2C10T1-5-5 WITH ITEM 51 OR 52 (CONNECTORS ON RIGID LINE).

STANDARD MECHANICAL PRACTICES	
	AIRCRAFT MODEL
	BD-700-1A10 BD-700-1A11
METAL PROCESSES	SRM 51-28-00
FINISH CODES	SRM 51-01-04
INSTALLATION OF SOLID/BLIND RIVETS	SRM 51-42-00
INSTALLATION OF BOLTS, SCREWS AND RELATED ITEMS	SRM 51-41-04
INSTALLATION OF PLUMBING LINES	SPM 20-22-00
INSTALLATION OF POTTED INSERTS	SPM 20-55-00
SEALING PROCEDURES	SPM 51-23-00
ELECTRICAL BONDING	SPM 51-80-00

	QTY	ITEM	PART NUMBER	DESCRIPTION	MATERIAL	SPEC	SIZE/WGT/FINISH
	-1	1	-1	FLEXIBLE OXYGEN HOSE ASSY MODIFICATION			
	A/R	10	38911-05-0070	HOSE ASSY, STRAIGHT		HYDRAFLOW	
	A/R	11	38911-05-0080	HOSE ASSY, STRAIGHT		HYDRAFLOW	
	A/R	12	38911-05-0100	HOSE ASSY, STRAIGHT		HYDRAFLOW	
	A/R	13	38911-05-0120	HOSE ASSY, STRAIGHT		HYDRAFLOW	
	A/R	14	38911-05-0150	HOSE ASSY, STRAIGHT		HYDRAFLOW	
20 18	A/R	15	38911-05-0160	HOSE ASSY, STRAIGHT		HYDRAFLOW	
	A/R	16	38911-05-0250	HOSE ASSY, STRAIGHT		HYDRAFLOW	
	A/R	17	38911-05-0310	HOSE ASSY, STRAIGHT		HYDRAFLOW	
	A/R	18	38911-05-0360	HOSE ASSY, STRAIGHT		HYDRAFLOW	
	A/R	19	38911-05-0720	HOSE ASSY, STRAIGHT		HYDRAFLOW	
	A/R	20	38913-05-0100	HOSE ASSY, ONE SIDE 90 DEG		HYDRAFLOW	
	A/R	21	38913-05-0250	HOSE ASSY, ONE SIDE 90 DEG		HYDRAFLOW	
17	A/R	50	AD003-05AG	ELBOW 90 DEG		HYDRAFLOW	
22	A/R	51	O2C10T1-5-5	LINE TYPE ASSY		O2 CORP	
	A/R	52	O2C10T05-5-5	ELBOW LINE TYPE ASSY		O2 CORP	
21	A/R	100	CB9120V5	MOUNTING BASE			
	A/R	101	MS3367-5-9	TYRAP			
18	A/R	200	MS21919WDG9	CLAMP			
	A/R	201	NAS1801-3-8	SCREW			
	A/R	202	NAS1149F0332P	WASHER			
	A/R	203	MS21042L3	NUT			
16	A/R	300	ARALDITE 2011	ADHESIVE		HUNTSMAN	

SB700-35-6501-S1-PL

Figure 2 − Flexible Oxygen Hose Assy Modification
(Sheet 1 of 2, Rev. A)

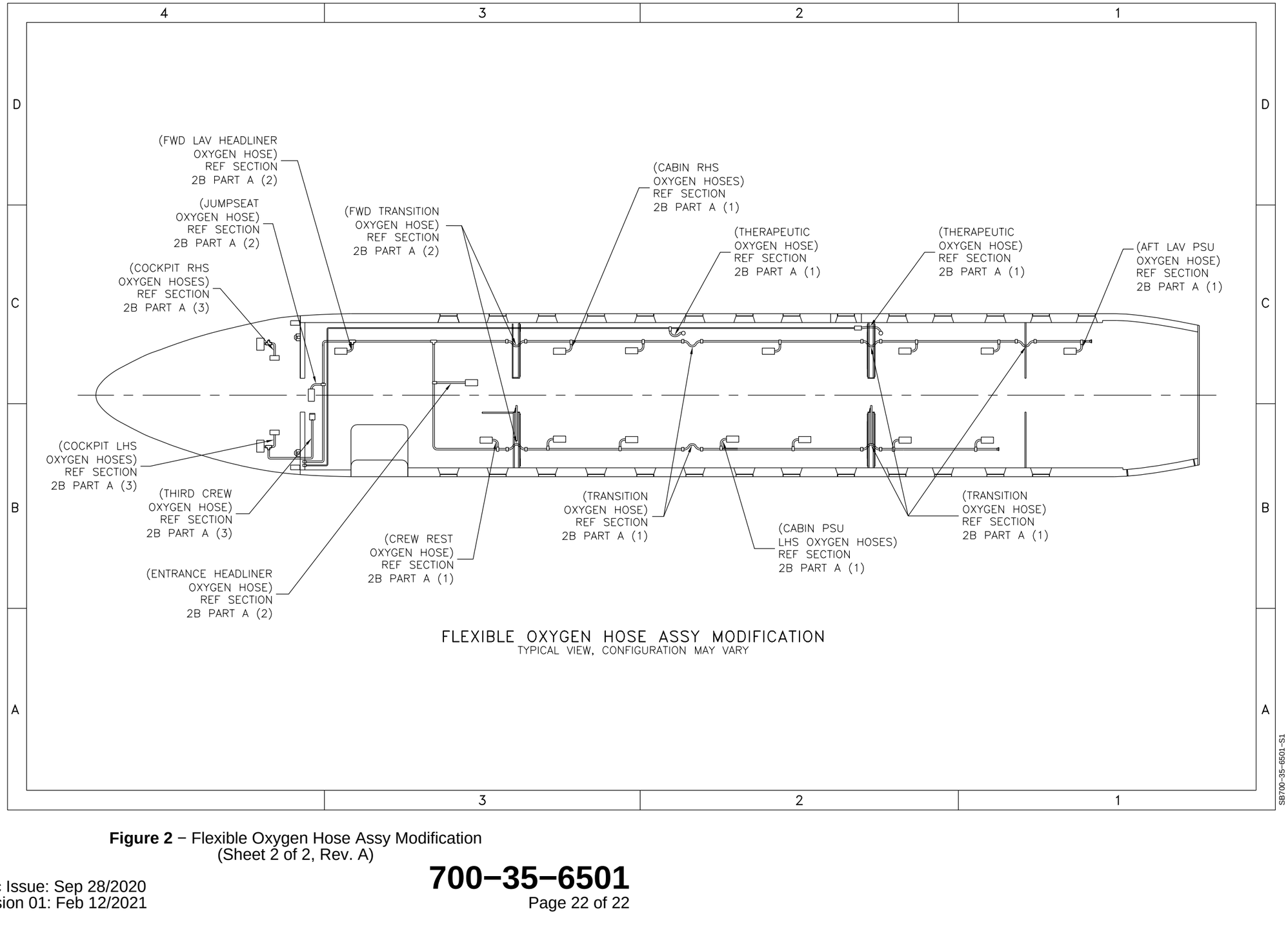

Figure 2 − Flexible Oxygen Hose Assy Modification
(Sheet 2 of 2, Rev. A)

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SERVICE BULLETIN EVALUATION FORM

(Your ideas will help us provide better bulletins)

SERVICE BULLETIN:	700−35−6501	**ISSUE:**	Rev. 01	**DATED:**	Feb 12/2021

TITLE: MODIFICATION – OXYGEN SUPPLY SYSTEM – FLEXIBLE OXYGEN HOSE REPLACEMENT

For any information, correction(s), comment(s) and/or feedback regarding Service Bulletins released on the Customer Portal, please contact the Service Bulletin Group at the following email address:

bbad_SBgroup@aero.bombardier.com

NOTE: Please use Salesforce **only** for troubleshooting issues or when Engineering deviation is necessary to accomplish the Service Bulletin modification.

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SERVICE BULLETIN INCORPORATION SHEET − "700−35−6501"

BOMBARDIER SUBMISSION	Upon completion of the Service Bulletin, please fill−in, fax to (514) 855−8798 or e−mail to Fracas at fracas.montreal@aero.bombardier.com **If you're reporting Service Bulletin (SB) Incorporations to CAMP, sending this Incorporation Sheet to Bombardier is not mandatory.** If your aircraft is on another tracking system, please contact Bombardier to make arrangements for automated data submission.

Service Bulletin Number	Rev.	* Parts Completed	COMPLIED WITH YES	NO	N/A	Remarks/Reason (Mandatory if N/A)
700−35−6501	01	PART A	☐	☐	☐	
"	"	PART B	☐	☐	☐	
"	"	PART C	☐	☐	☐	
			☐	☐	☐	
			☐	☐	☐	

Actual hours to accomplish Service Bulletin: _____

* NOTES:

1. Where the Service Bulletin is divided into a number of parts (e.g., PARTS A, B, C, D, etc.) which can be carried out separately, indicate only those parts completed at this time.
2. For repetitive checks (usually PART A) only the initial check should be reported unless otherwise stated in the Service Bulletin.
3. When more than one part is carried out at the same time, each part should be reported.
4. Fill in 'Remark/Reason' to explain compliance method when N/A is selected.(E.g. Part not installed, N/A by effectivity, N/A by Part Serial Number, etc.
5. PCW means 'Previously Complied With'.

Aircraft Serial No. _____ Aircraft Reg. No. _____

Airframe Hours: _____ Airframe Landings _____

S.B. Incorporation Date _____ (dd/mm/yy) Service Order No. _____

Facility incorporating S.B. _____

Name _____ Signature _____ Date _____ (dd/mm/yy)

Signature not required if sent by E−Mail